Claims

[1] An isolated plant sucrose-inducible promoter sequence, comprising a DNA nucleotide sequence of a bp - 1 to -1,908 region, relative to a transcription initiation site of SEQ K) NO: 1.

[2] The isolated plant sucrose-inducible promoter sequence according to claim 1, wherein the said promoter sequence is derived from an *ibAGPl* gene of sweetpotato ADP-glucose pyrophosphorylase.

[3] An isolated 5' untranslated region of a sweetpotato ADP-glucose pyrophosphorlyase gene, comprising a nucleotide sequence of a bp + 1 to +68 region, relative to a transcription initiation site of SEQ ID NO: 1.

[4] A sucrose-inducible binary vector for plant transformation, comprising the plant sucrose-inducible promoter sequence of claim 1 and the 5' untranslated region of claim 3.

[5] A sucrose-inducible transient expression vector for plants, comprising the plant sucrose-inducible promoter sequence of claim 1 and the 5' untranslated region of claim 3.

[6] An E. coli carrying the sucrose-inducible binary vector for plant transformation of claim 4.

[7] An E. coli carrying the transient expression vector of claim 5.

[8] A transgenic plant transformed with a binary vector comprising the plant sucrose-inducible promoter sequence of claim 1 and the 5' untranslated region of claim 3.

[9] PCR primers of SEQ ID NOS : 2 and 3, suitable for amplifying the DNA fragment comprising the sequence of SEQ ID NO: 1.

[10] PCR primers of SEQ ID NOS: 4 and 5, suitable for amplifying the DNA fragment comprising the sequence of SEQ ID NO: 1.